



## SX-305 Sim Card Hack

### Preface

I described in my [Without a Smartphone](#) article why I didn't have a mobile phone. Unfortunately, everyday life doesn't work without it. So I bought the cheapest mobile phone I could find and set it up. Unfortunately, there was the problem that my SIM card was adapted to the size of my old smartphone and it didn't fit anymore because it was too small. This article describes how to rebuild the SIM card to fit the old model without much effort.

### Materials



We don't need much material and most things the hobby hacker should have in his study. Masking tape is optional, because you can also use simple adhesive tape. Masking tape is only easier to get off the plastic and otherwise there is no big difference.

- Old Sim or Credit Card
- Scissors
- Masking Tape
- [Precision Knife](#)
- Black (or another color) Spray Can
- Nail Polish Remover

- Cotton Swabs

## Realisation

Here we see the card slot in which the new SIM card is inserted. We open the Simvalley SX-305 by pushing the back cover slightly upwards and then removing it. Then we can remove the battery. We put both components in a safe place.



This is the old plastic card from my SIM card. As you can see, there used to be the big format, but over the years I lost it. We can work with the template to make a copy of this big SIM card.



First we cut the old large plastic card in the middle so that we have a more manageable format. This is best done with a normal pair of scissors, which should be a little larger to make it easier to cut. Place the side with the opening on the side without the opening.





Then we glue both pieces together with the masking tape. We put the two pieces of card somewhere where they can be sprayed. I have an old cardboard box with some pieces of wood where I can place things. With these I go then into the cellar and varnish there the parts. When these are finished I take them out of the cellar into my study.



After that we spray the side with the opening. This does not have to cover perfectly, because we only have to be able to recognize the design of the old card. I used black color, but you can use another color. You should only be able to recognize it well.





Here you can see the result exactly. I only sprayed so much paint on it that you can see it clearly. If too much paint is applied, in the worst case it can run between the two cards, dry them and glue them together. It would be very difficult to get them apart. If you don't have a spray paint, you can also use a waterproof pen and trace it. From my own experience, however, this becomes more unclean.



After we have removed the tape and the side with the opening, you can see the design even better. Now we cut out the card. There are some points you should pay attention to. Don't cut too fast and take your time, because those who work more properly will have less to do later. Cut out a little bigger. It's easier to cut something away later, instead of sticking it back on again or having to start all over again. The last tip when cutting is that you should round the corners a little. This way, less damage can occur inside the mobile phone and the card won't get stuck so easily.



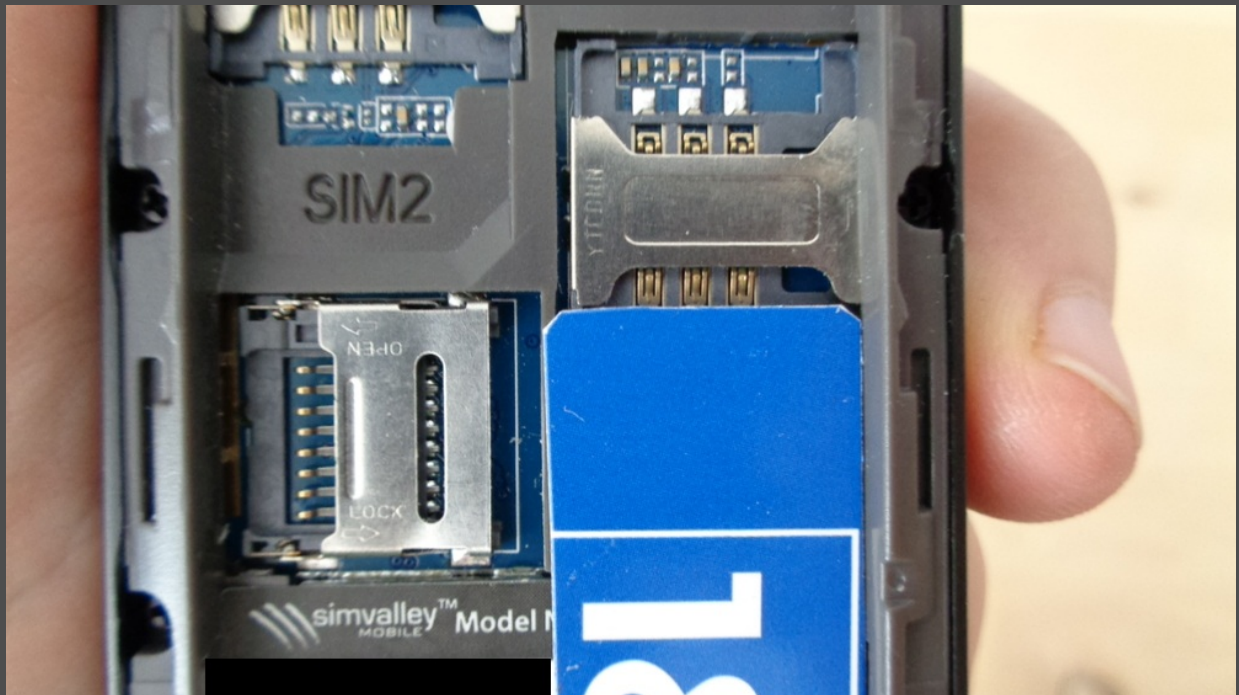
The finished card. Unfortunately the paint from the spray can is still on it. We take it off with an old cloth (or cotton swab) and nail polish remover. This way less paint particles can get into the mobile phone.







After I had cleaned the card and wanted to insert it into the mobile phone, I noticed that it is always a little too big. I simply cut thin pieces with scissors until it fit exactly.



Here the card fits, but as you can see on the photo, I cut the corners a little too generously. But that doesn't matter if the card still fits approximately and doesn't wiggle.



Now we come to the really difficult part of our project. We have to cut the plastic so that our little card can be inserted. Since we can't glue them, we really have to work as accurately as possible. Since I didn't have an original card, I had to look at some [Graphics](#) on the internet to see exactly where the small card is.

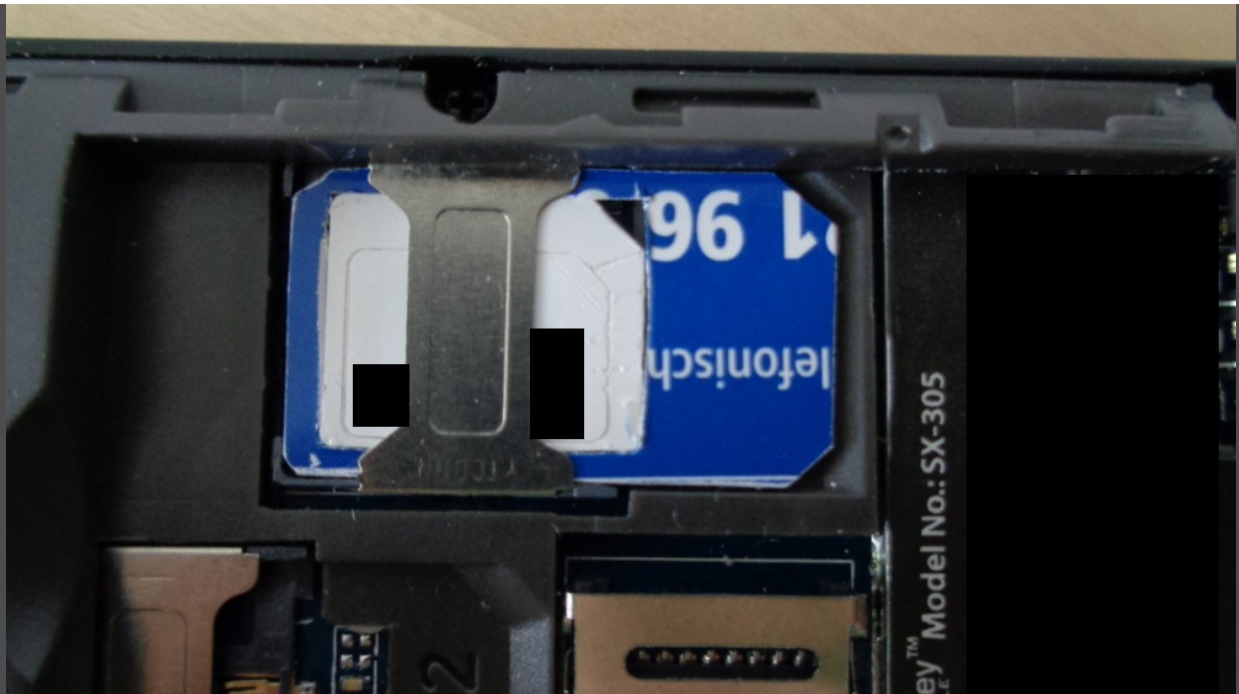






I put the small card on the big card and then carefully traced it with a precision knife. This leaves small grooves on which I can orientate myself. With the same knife I cut out the small pastik piece. After several mails I inserted it and tested it and it really worked. Both cards have a small diagonal corner. You can orientate yourself at this corner, because both diagonal corners are opposite each other. Since I had made these by mistake on the wrong side, it looks so unclean. It still works and you can insert the big map and start.





## Conclusion

During my research I have discovered that there are also small adapters in which you can insert the card. Yes, you can create even more plastic waste by ordering new things. For me personally it is important to solve a problem, to save money and not to pollute the environment too much. That's why I wrote down this tutorial, because it not only teaches us how to solve a problem without sulfants, but also how to do it creatively. Anyone can order things on the internet.